

## SPECIFICATION

Please correct the paragraph below as shown which begins on page 12:

In a preferred embodiment of the invention, the working fluid supplied to turbine 120 is synthesis gas comprising CO and H<sub>2</sub>. Its specific volume (equal to its volume divided by its mass) is approximately two times greater than that of steam and three times greater than that of air, all other conditions being equal. Thus, assuming the same rate of expansion in turbine 120, the specific power (power/mass) generated by the expansion of the synthesis gas is approximately two and three times greater, respectively, compared to turbines which use steam or air as the working fluid. High specific power densities produced by the invention permit turbine 120 to have lighter weight and smaller dimensions. As a result, the use of synthesis gas for turbine expansion provides lower overall system cost compared to other power systems. In addition, the use of synthesis gas as the working fluid for turbine expansion largely avoids the inherent thermodynamic efficiency limitations imposed by the Carnot principle on conventional power systems which use cyclic processes because the synthesis gas used by system 100 goes to the turbine 120 at an elevated pressure (e.g. the pressure of a typical gas main) and is subsequently reacted electrochemically.

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